

CLAIMS

1. A method for treating ship ballast water in which organisms viable in the ship ballast water are exterminated by adding to the ship ballast
5 water hydrogen peroxide or a compound producing hydrogen peroxide in an amount such that a hydrogen peroxide concentration comes to be 10 to 500 mg/L and at least one type selected from a ferrous ion or a compound supplying ferrous ion in an amount such that a ferrous ion concentration comes to be 0.1 to 400 mg/L, catalase in an amount such that a
10 concentration of catalase comes to be 0.5 to 2,500 unit/L and iodine or a compound supplying iodine amount such that an iodine concentration comes to be 0.1 to 100 mg/L.
2. The method for treating the ship ballast water according to Claim 1,
15 wherein said hydrogen peroxide concentration is 10 to 300 mg/L, said ferrous ion concentration is 0.1 to 100 mg/L, said catalase concentration is 0.5 to 250 unit/L, and said iodine concentration is 0.1 to 10 mg/L.
3. The method for treating the ship ballast water according to Claim 1,
20 wherein said compound producing hydrogen peroxide is selected from perboric acid, percarbonic acid, peroxyulfuric acid, peracetic acid, sodium perborate and sodium percarbonate.
4. The method for treating the ship ballast water according to Claim 1,
25 wherein said compound supplying ferrous ion is selected from ferrous sulfate, ferrous chloride and ammonium ferrous sulfate.
5. The method for treating the ship ballast water according to Claim 1,

wherein said catalase is selected from a resultant extracted article from a liver, a kidney and blood erythrocytes of a cow and a pig, and a resultant bacteria cultured article of *Aspergillus niger* and *Micrococcus lysodeikticus*, having a molecular weight of 100,000 to 500,000 and an activity of 10,000 to 100,000 unit/mL.

6. The method for treating the ship ballast water according to Claim 1, wherein said compound supplying iodine is selected from potassium iodide and ammonium iodide.

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7. The method for treating the ship ballast water according to Claim 1, wherein said hydrogen peroxide or a compound producing hydrogen peroxide, said ferrous ion or a compound supplying ferrous ion, said catalase and said iodine or a compound supplying iodine are diluted or dissolved with seawater or fresh water and are added to the ballast water.

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8. The method for treating the ship ballast water according to Claim 1, wherein said hydrogen peroxide or a compound producing hydrogen peroxide is allowed to be in contact with the ballast water for 3 to 40 hours.